ECE 345 / ME 380: Introduction to Control Systems
Collaborative Quiz #0 Grading Sheet

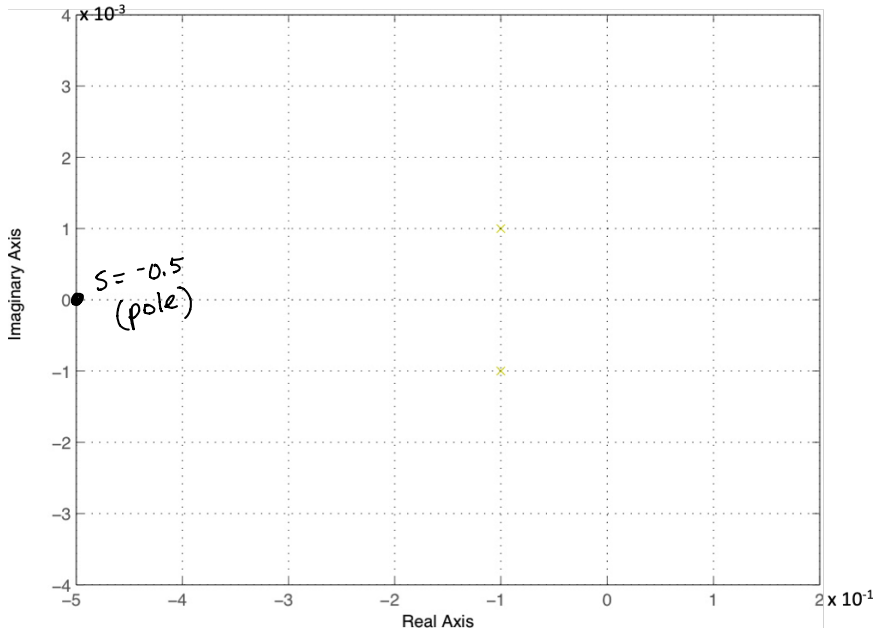
Dr. Oishi

August 27, 2020

This quiz is open-note and open-book. Computational tools (Matlab, calculators) are allowed. No partial credit will be awarded. For each of the questions, clearly write the correct answer.

In-Class Questions

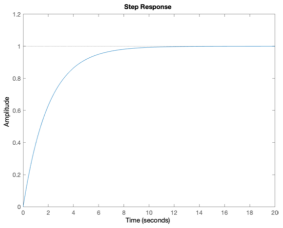
1. (c) $G_{\text{satellite}}(s) = G_{\text{thruster}}(s) \cdot \dfrac{n^2}{s^2 + n^2}$
2. 1 pole at $s = 0.5$, 0 zeros



3. (a) $f_{ss} = 1$
4. (c) $z(t) = \mathcal{L}^{-1}\{G_{\text{satellite}}(s) \cdot R(s)\}$
5. (c) Because it is the only one that is stable (like our function). We ruled out

   (b) because there's no trigonometric terms in our function, and ruled out

   (a) because it grows to infinity.



(c)

Statement of Effort

By providing my name below, I pledge that I have written this quiz as per the indicated instructions, and fully participated in the group.

Nathan Burt	burtn@unm.edu	
Name		Email `@unm.edu`
Noah Jackson	njackson18@unm.edu	
Name		Email `@unm.edu`
David Kirby	davidkirby@unm.edu	
Name		Email `@unm.edu`